(9)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAAPURA

Name of Work: *Estimate for Improvements to Roads and Drains at Nanjappa Layout, Chamundeshwari Layout, C. Ramaiah Layout, Bloom Moon Garden, Blue Filed Garden and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.*

Estimated Cost: Rs: 70.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Nanjappa Layout, Chamundeshwari Layout, C. Ramaiah Layout, Bloom Moon Garden, Blue Filed Garden and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.**

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							Estimate Cost:		**7000000.00**
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	For Drain Desilting								
	Chamundeshwari Layout 5th Main		2	330.00	0.45	0.45	133.65		
	Chamundeshwari Layout 4th Main		2	350.00	0.45	0.45	141.75		
	Chamundeshwari Layout 3rd Main		2	340.00	0.45	0.45	137.70		
	Chamundeshwari Layout 1st Main		2	250.00	0.45	0.45	101.25		
	Nanjappa layout 1st Cross		2	75.00	0.45	0.45	30.38		
	Nanjappa layout 2nd Cross		2	75.00	0.45	0.45	30.38		
	Nanjappa layout 3rd Cross		2	75.00	0.45	0.45	30.38		
	Nanjappa layout 4th Cross		2	75.00	0.45	0.45	30.38		
	Venkatagiriyappa Layout 3rd Cross		2	280.00	0.45	0.45	113.40		
	Berm Cutting								
	Chamundeshwari Layout 5th Main		2	330.00	0.60	0.20	79.20		
	Chamundeshwari Layout 4th Main		2	350.00	0.60	0.20	84.00		
	Chamundeshwari Layout 3th Main		2	350.00	0.60	0.25	105.00		
	Chamundeshwari Layout 1st Main		2	250.00	0.60	0.20	60.00		
	Nanjappa layout 1st Cross		2	75.00	0.60	0.20	18.00		
	Nanjappa layout 2nd Cross		2	75.00	0.60	0.20	18.00		
	Nanjappa layout 3rd Cross		2	75.00	0.60	0.20	18.00		
	Nanjappa layout 4th Cross		2	75.00	0.60	0.20	18.00		
	Venkatagiriyappa Layout 3rd Cross		2	280.00	0.60	0.20	67.20		
							1216.65	243.88	**296717.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Sub Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
	Total	**243.88**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD**	Sqm							
	Chamundeshwari Layout 5th Main		2	330.00		0.90	594.00		
	Chamundeshwari Layout 4th Main		2	350.00		0.90	630.00		
	Chamundeshwari Layout 3rd Main		2	340.00		0.90	612.00		
	Chamundeshwari Layout 1st Main		2	250.00		0.90	450.00		
	Nanjappa layout 1st Cross		2	75.00		0.90	135.00		
	Nanjappa layout 2nd Cross		2	75.00		0.90	135.00		
	Nanjappa layout 3rd Cross		2	75.00		0.90	135.00		
	Nanjappa layout 4th Cross		2	75.00		0.90	135.00		
	Venkatagiriyappa Layout 3rd Cross		2	280.00		0.90	504.00		
	Total Qty						**3330.00**		
	Consider 50% of the Total Qty						**1665.00**	111.30	**185315.00**
	Basic Rate	105.00							
	Area Weightage @ 6%	6.30							
	Total	**111.30**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 146 / Item No. 19.55 PWD SR**	Sqm							
	Chamundeshwari Layout 5th Main		1	330.00	5.00		1650.00		
	Chamundeshwari Layout 4th Main		1	350.00	5.50		1925.00		
	Chamundeshwari Layout 3rd Main		1	340.00	5.50		1870.00		
	Chamundeshwari Layout 1st Main		1	250.00	5.50		1375.00		
	Nanjappa layout 1st Cross		1	75.00	5.00		375.00		
	Nanjappa layout 2nd Cross		1	75.00	5.00		375.00		
	Nanjappa layout 3rd Cross		1	75.00	5.00		375.00		
	Nanjappa layout 4th Cross		1	75.00	5.00		375.00		
	Venkatagiriyappa Layout 3rd Cross		1	280.00	5.00		1400.00		
	Total Qty						**9720.00**		
	Consider 30% of the Total Qty						**2916.00**	95.40	**278186.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
4	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No.**	Cum							
	Chamundeshwari Layout 5th Main		1	330.00	5.00	0.23	379.50		
	Chamundeshwari Layout 4th Main		1	350.00	5.50	0.23	442.75		
	Chamundeshwari Layout 3rd Main		1	340.00	5.50	0.23	430.10		
	Chamundeshwari Layout 1st Main		1	250.00	5.50	0.23	316.25		
	Nanjappa layout 1st Cross		1	75.00	5.00	0.23	86.25		
	Nanjappa layout 2nd Cross		1	75.00	5.00	0.23	86.25		
	Nanjappa layout 3rd Cross		1	75.00	5.00	0.23	86.25		
	Nanjappa layout 4th Cross		1	75.00	5.00	0.23	86.25		
	Venkatagiriyappa Layout 3rd Cross		1	280.00	5.00	0.23	322.00		
	Total Qty						**2235.60**		
	Consider 30% of the Total Qty						**670.68**	2001.28	**1342218.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
5	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							
	Chamundeshwari Layout 5th Main		1	330.00	5.00		1650.00		
	Chamundeshwari Layout 4th Main		1	350.00	5.50		1925.00		
	Chamundeshwari Layout 3rd Main		1	340.00	5.50		1870.00		
	Chamundeshwari Layout 1st Main		1	250.00	5.50		1375.00		
	Nanjappa layout 1st Cross		1	75.00	5.00		375.00		
	Nanjappa layout 2nd Cross		1	75.00	5.00		375.00		
	Nanjappa layout 3rd Cross		1	75.00	5.00		375.00		
	Nanjappa layout 4th Cross		1	75.00	5.00		375.00		
	Venkatagiriyappa Layout 3rd Cross		1	280.00	5.00		1400.00		

l. lo	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total Qty						**9720.00**		
	Consider 30% of the Total Qty						**2916.00**	29.68	**86547.00**
	Revised Basic Rate	28.00							
	Area Weightage @ 6%	1.68							
	Total	**29.68**							
6	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 /**	Cum							
	Chamundeshwari Layout 5th Main		1	330.00	5.00	0.05	82.50		
	Chamundeshwari Layout 4th Main		1	350.00	5.50	0.05	96.25		
	Chamundeshwari Layout 3rd Main		1	340.00	5.50	0.05	93.50		
	Chamundeshwari Layout 1st Main		1	250.00	5.50	0.05	68.75		
	Nanjappa layout 1st Cross		1	75.00	5.00	0.05	18.75		
	Nanjappa layout 2nd Cross		1	75.00	5.00	0.05	18.75		
	Nanjappa layout 3rd Cross		1	75.00	5.00	0.05	18.75		
	Nanjappa layout 4th Cross		1	75.00	5.00	0.05	18.75		
	Venkatagiriyappa Layout 3rd Cross		1	280.00	5.00	0.05	70.00		
	Total Qty						**486.00**		
	Consider 30% of the Total Qty						**145.80**	5551.22	**809368.00**
	Revised Basic Rate	5237.00							
	Area Weightage @ 6%	314.22							
	Total	**5551.22**							
7	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
	Chamundeshwari Layout 5th Main		1	330.00	5.00		1650.00		
	Chamundeshwari Layout 4th Main		1	350.00	5.50		1925.00		
	Chamundeshwari Layout 3rd Main		1	340.00	5.50		1870.00		
	Chamundeshwari Layout 1st Main		1	250.00	5.50		1375.00		
	Nanjappa layout 1st Cross		1	75.00	5.00		375.00		
	Nanjappa layout 2nd Cross		1	75.00	5.00		375.00		
	Nanjappa layout 3rd Cross		1	75.00	5.00		375.00		
	Nanjappa layout 4th Cross		1	75.00	5.00		375.00		
	Venkatagiriyappa Layout 3rd Cross		1	280.00	5.00		1400.00		
	Total Qty						**9720.00**	5.30	**51516.00**
	Basic Rate	5.00							
	Area Weightage @ 6%	0.30							
	Total	**5.30**							

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Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
8	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD**	Sqm							
			Qty Vide Item No. 7				9720.00		
	Revised Basic Rate	12.00					**9720.00**	12.72	**123638.00**
	Area Weightage @ 6%	0.72							
	Total	**12.72**							
9	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19**	Cum				0.040		
	Chamundeshwari Layout 5th Main		1	330.00	5.00	#####	66.00		
	Chamundeshwari Layout 4th Main		1	350.00	5.50	#####	77.00		
	Chamundeshwari Layout 3rd Main		1	340.00	5.50	#####	74.80		
	Chamundeshwari Layout 1st Main		1	250.00	5.50	#####	55.00		
	Nanjappa layout 1st Cross		1	75.00	5.00	#####	15.00		
	Nanjappa layout 2nd Cross		1	75.00	5.00	#####	15.00		
	Nanjappa layout 3rd Cross		1	75.00	5.00	#####	15.00		
	Nanjappa layout 4th Cross		1	75.00	5.00	#####	15.00		
	Venkatagiriyappa Layout 3rd Cross		1	280.00	5.00	#####	56.00		
	Revised Basic Rate	7464.00				0.040	**388.80**	7911.84	**3076123.00**
	Area Weightage @ 6%	447.84							
	Total	**7911.84**							
	Sub Total								**6249628.00**
	GST @ 12%								**749955.00**
	Miscellaneous and other Charges	L/S							**417.00**
								Total	**7000000.00**
	Rupees Seventy Lakh(s) Only								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 This work included under 2019-20 Special Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 70.00, Seventy lakhs only
Head of A/c. P3603, Special Development Works
Adv. Ref. No. 56/19-20 Date 24-10-19
24/10
EE(BTP) 24/10

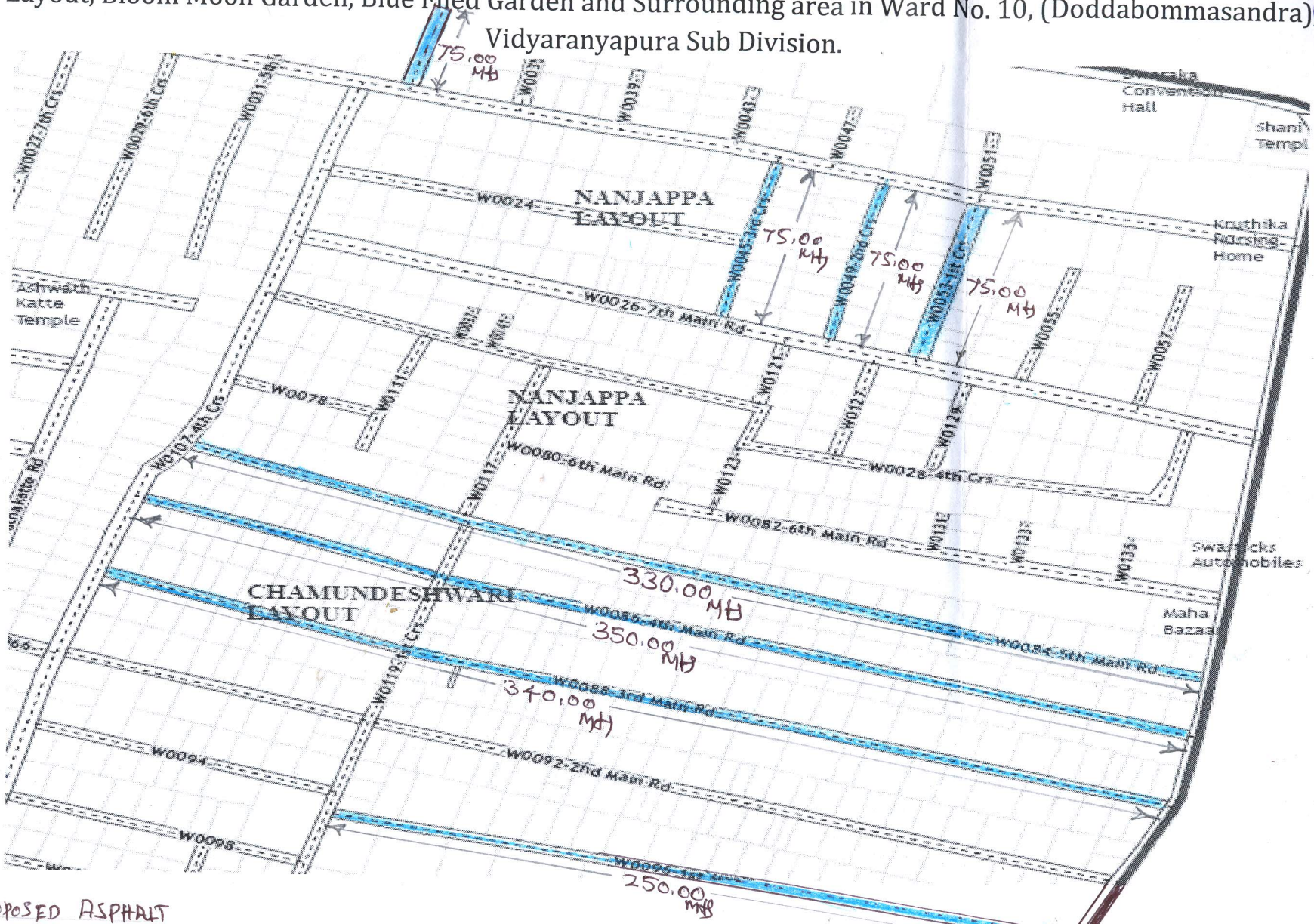
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction
Accorded For Rs. 70.00 lakhs only
Head of A/C. P3603
CER NO : 98 Dt: 23.10.2019

TA CE (YNK).

Name of work : Improvements to Roads and Drains at Nanjappa Layout, Chamundeshwari Layout, C. Ramaiah Layout, Bloom Moon Garden, Blue Filed Garden and Surrounding area in Ward No. 10, (Doddabommasandra) Vidyaranyapura Sub Division.

(4)



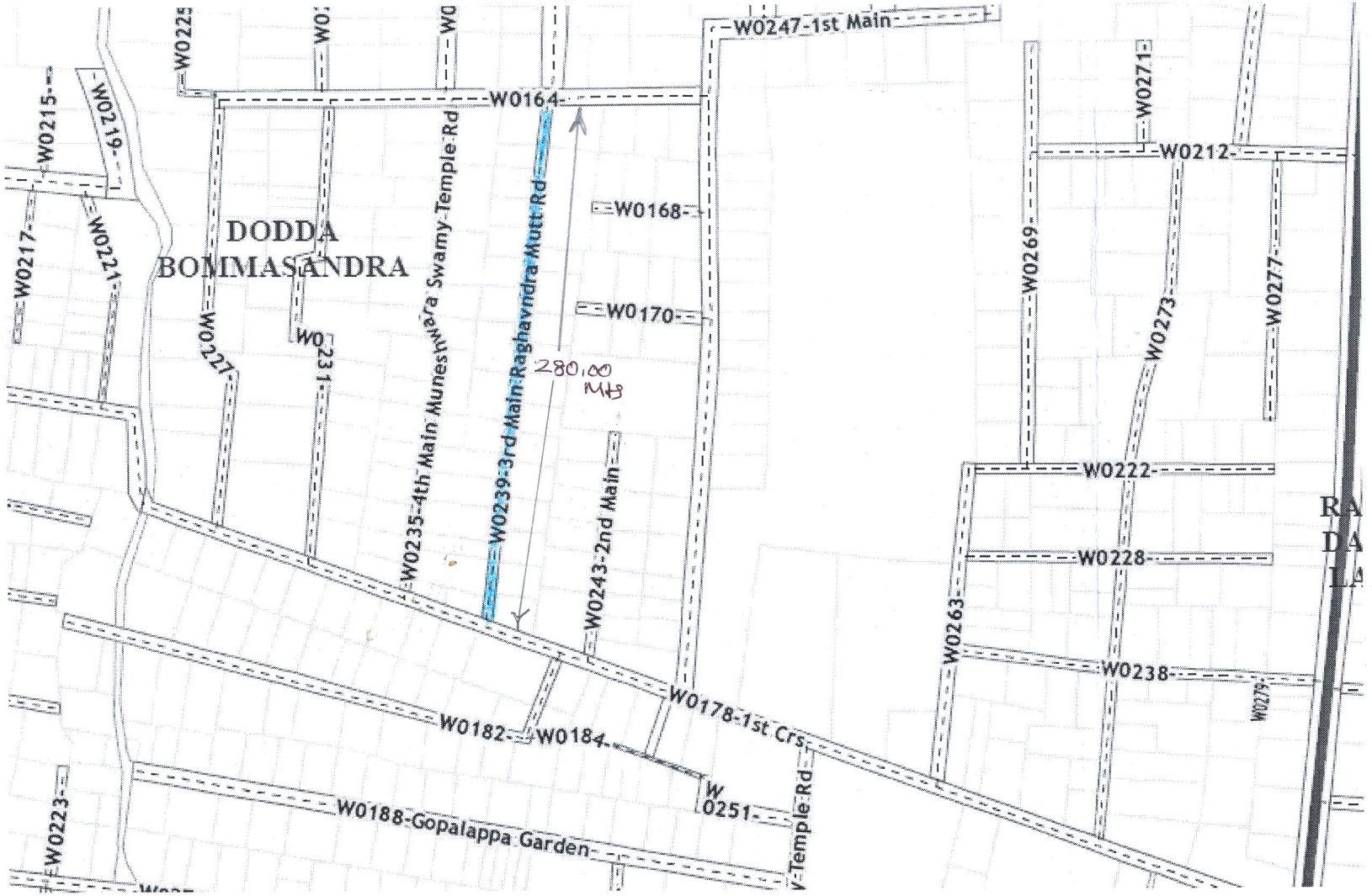
PROPOSED ASPHALT

Sumitha.N.L
Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division

Name of work : Improvements to Roads and Drains at Nanjappa Layout, Chamundeshwari Layout, C. Ramaiah Layout, Bloom Moon Garden, Blue Filed Garden and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.

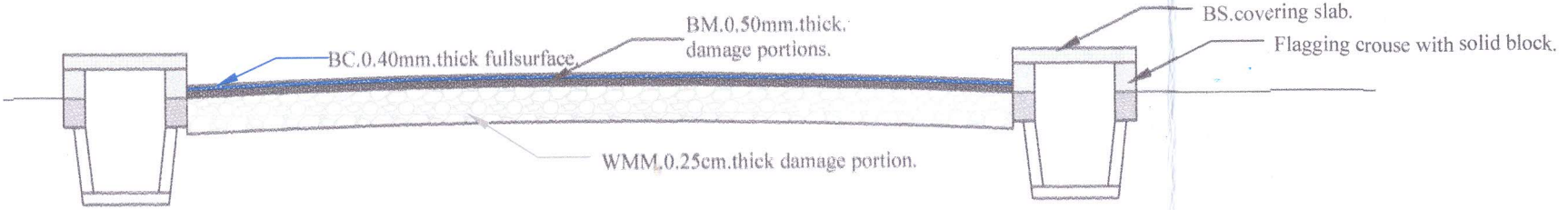
(3)



PROPOSED ASPHALT

Suresha N K
Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division



CROSS SECTION OF ASPHALT ROAD.

Sunetha N K
AE (W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97